

Setting up the graphic calculator before use

This resource was written by Derek Smith with the support of CASIO New Zealand. It may be freely distributed but remains the intellectual property of the author and CASIO.

Select RUN mode from the main menu by using the arrow keys to highlight the RUN icon or pressing 1.



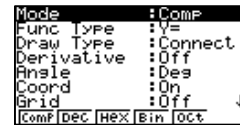
Some tricks and tips.

There are different 'set ups' in each icon on the graphic calculator.

Enter into RUN mode.



SHIFT **MENU**
gives



then using the down arrow \downarrow followed by the appropriate 'F' key to change the settings:

1. Set up for graphing types: Rectangular co-ordinates

Polar form

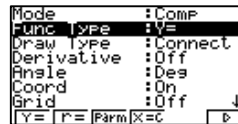
Parametric form

Vertical lines

F6 gives more choices, namely

inequalities $y <$, $y >$, $y =$, $y =$

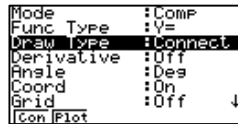
formats, for shading (or feasible regions)



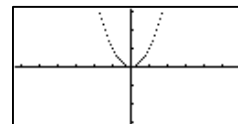
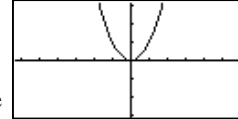
2. Set up for drawing:

connected

Either connected points or plotted points (gaps in)



Example



plotted

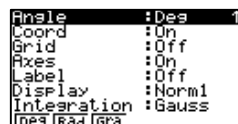
3. Set up for derivatives:

Very useful for finding the derivative, when placed [ON] a co-ordinate point and dy/dx is displayed and the line formula: $y - y_1 = m(x - x_1)$ [See worksheet on derivatives and curve tracing.]



4. Set up for angles:

Very useful for conversion between degrees and radian measure.



5. Set up for the x and y axes:

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
On/Off
    
```

Displays the co-ordinates when tracing (x, y).

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
On/Off
    
```

Draws a grid, like quad paper.

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
On/Off
    
```

Draws the x and y axes.

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
On/Off
    
```

Labels the x and y

6. Set up for number display:

Either **Fixed** number of decimal values, **Scientific** notation or **Normal** number display.

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
Fix/Eng/ Norm/Eng
    
```

7. Set up for integration display:

Gaussian approximation or **Simpson's** rule for integration.

```

Ansle      :Des  ↑
Coord      :On
Grid       :Off
Axes       :On
Label      :Off
Display    :Norm1
Integration :Gauss
Gauss/Smp
    
```

8. **EXIT** when the set up changes have been completed.

9.

In each **ICON** from the **Main Menu**, check what set up is available to you by keying **SHIFT MENU**

It is important that the teacher and the student can set up the calculator easily, for quick and easy use for their study of mathematics.